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PART B SOLAR - GEOPHYSICAL DATA

ISSUED
SEPTEMBER 1962

U. S. DEPARTMENT OF COMMERCE NATIONAL BUREAU OF STANDARDS CENTRAL RADIO PROPAGATION LABORATORY BOULDER, COLORADO



SOLAR - GEOPHYSICAL DATA

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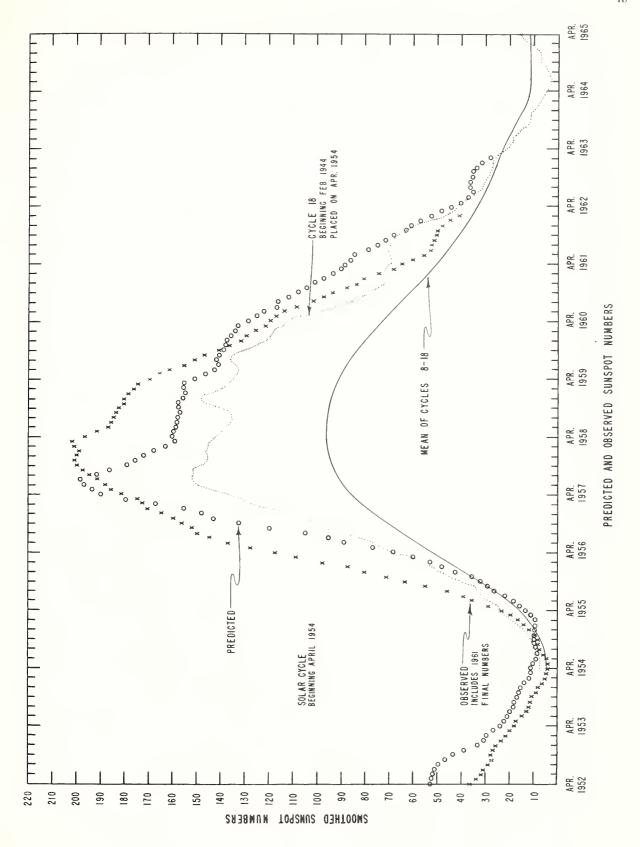
(a) Alerts and SWI - August 1962



The descriptive text was republished November 1961. Addenda to the text were published February 1962.

July 1962	American Relative Sunspot Numbers R _A ,
1	38
2	37
3	38
4	3 1
5	18
6	18
7	11
8	13
9	12
10	11
11	13
12	18
13	23
14	26
15	15
16	17
17	18
18	12
19	9
20	3
21	23
22	13
23	12
24	12
25	10
26	11
27	9
28	7
29	5
30	1
31	0
Mean:	15.6

Aug. 1962	Zürich Provisional Relative Sunspot Numbers ^R Z	Daily Values Solar Flux at 2800 Mc, Ottawa, Canada Flux
1	0	71
2	7	73
3	7	72
4	10	73
5	14	70
6 7 8 9 10	11 9 8 0	72 71 72 73 76
11	0	74
12	15	76
13	2 ¹ 4	79
14	40	83
15	50	92
16	50	90
17	53	89
18	43	85
19	45	83
20	39	84
21	36	82
22	30	80
23	27	79
24	30	79
25	14	77
26 27 28 29 30 31	7 7 14 8 25 22	75 73 72 72 72 72 75
Mean:	20.8	77.2



CALCIUM PLAGE AND SUNSPOT REGIONS

AUGUST 1962

CMP		McMath	Return	Calcium P	lage Data	Sunspot	Data
Aug. 1962	Lat	Plage Number	of Region	CMP Values Area Int.	History, Age	CMP Values Area Count	History
01.3 03.2 05.7 07.0 07.0	S02 S05 N08 N15 N05	6508 6503 6504 6505 6510	New 6472 New 6476 New	(500)(2) 500 2.5 200 1 500 2 400 2.5	b / l 1 l / l 5 l \ d 1 l - l 8 b / l 1	40 3	b \wedge d
07.7 08.8 09.4 09.6 13.3	S14 N10 N21 N09 N07	6506 6507 6511 6512 6514	6477 6480 * 6480 New	600 2 1,400 2.5 800 2 500 2 1,000 2.5	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	60 2	b / l
16.4 17.2 18.6 19.0 19.4	N22 N12 N21 S11 N03	6515 6513 6518 6529 6516	6492 6495 New New New	900 1.5 1,000 3 100 2 (400)(2) 1,900 3	$ \begin{array}{ccccc} l & - & l & 5 \\ l & \downarrow & l & 2 \\ l & \uparrow & d & 1 \\ b & $		
19.5 20.5 21.5 23.0 23.0	N13 NO2 NO7 NO1 N16	6527 6522 6523 6524 6526	New New New 6497 New	(200) (1.5) 900 4 100 1.5 400 2.5 (100) (1)	b / l 1 l / l 1 b / d 1 l / l 3 b / d 1	130 5	l — l
24.7 25.0 25.9 27.8 30.2	S17 N09 S02 N08 S05	6540 6525 6541 6537 6543	New New 6503	(500)(2) 400 2 (500)(2) 500 1.5 (500)(2)	$ \begin{array}{ccccc} b & \nearrow l \\ l & -l & 1 \\ b & \land d \\ b & \land d & 1 \\ b & \nearrow l & 6 \end{array} $		

^{*} New in position of 6481+ Merged with 6507

AUGUST 1962

Aug. 1962	Time Meas.	Lat.	Mer. Dist.	Type	Aug. 1962	Time Meas.	Lat.	Mer. Dist.	Туре
2	1635	W05	N05	ар	14	1700	W19 E64	N06 N02	βγ βf
14	1735	W23	S03	αр	18	1520	W70	NO7	β
5	2415	E13	NO7	β			EO7	NO4 NO2	αp β
6	1930	E05	NO7	αſ			E33	NlO	αſ
7	1845	WlO	NO7	β	20	1640	*E08 *E08	N05	αf β
					24	1620	W67	N02	αf
12	2335	E04	NO7	βр	29	2229	E50	S06	αf
13	1700	wo6 E49 E78	N06 N12 N02	β af af	30	1820	E36 E40	S07 N10	βp βp
		,			31	2340	E19 E23	S07 N10	αp βf

^{*} Probably two distinct groups.

PROVISIONAL CORONAL LINE EMISSION INDICES

AUGUST 1962

r.t. ter)	Ħ.	H C C C K	22 22 23 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26	× 4. × × 0	16 52a 118a 157a 123a	36a 23a 27a 15a	17 29 16 10
quairart Aaya later	9	∞ 0.4 0.×	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	× 7 × × ∞	12 748 538 778 518	24a 20a X 19a 17a	1 × × ペンコン × × ペンプン × × ペンプン × × ペンプン × × ペンプン × × × × × × × × × × × × × × × × × ×
North West bserved	ల్	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 t t t t t t t t t t t t t t t t t t t	××× 6	92 92 171	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	755 700 X X X 5
North W (observed	9	71 71 71 71 72 X	25.02.02.02.02.02.02.02.02.02.02.02.02.02.	X	447 64 58 72	24 20 17 17	51 51 8 × × 8 5 1
mant later)	os d	10 15 21 213	22 23a 23a 25a	X K X X O	14 429 683 663 413	18 25 20 16a	17 X X X X X Z Z Z Z Z Z Z Z Z Z Z Z Z Z
yusd Sirs	200	e C x E x	100 110 110 110 110	× 2 × × 8	10 10 10 10 10 10 10 10 10 10 10 10 10 1	16a 26a 15x 15a 14a	11 X X X 16a 115
South West Ereryed 7	وال	∞ 7 H W X	28 24 20 22 22 22	14 X X 9 X	2001 5001 500 500 500 500 500 500 500 500	0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	in x x tit
South W (observed	95	10 17 22 X	9 t 0 - 1 t	* 5 * 5 * 5	113 124 173 173	20 × L 1 8	0,0 x x 5,0 27
drant earlier)	p. T	X X X OL X	2010 103 201 201 201 201	& C 다 X 다 없다. X 다	119 22 17 17 19 19	24 202 208 208 202 203 203 203 203 203 203 203 203 203	13 × × × 20 1 1 2 2 0 3 2 0 2 0
EU.	(A)	××°°°×	01 00 00 00 00 00 00 00 00 00 00 00 00 0	9 × × 1	15 3 11a X 26a	26 23a 20a x	10 × × × 8 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9
8 5	- C-	× × 0, 4, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	12 21 34 44	1 t t t t t t t t t t t t t t t t t t t	227	20 17 25 25 25 25 25 25 25 25 25 25 25 25 25	7 X X X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Sout':	95	16°3	2 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	O O W W W	971 871 871	0.000	11 12 X X V
		x x x x x x x x x x x x x x x x x x x	22 27 40a 8a X	\$\$ 17 × 9.	22 16 40a X 24a	0 0 0 0 ×	118 X X 110 220 33a
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Nort E	5						
90)	5	. x . 26a 21	4 4 7 3 7 3 4 4 4 5 7 3 4 4 4 5 7 3 4 4 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7	7 4 7 7 9 7 7 9 7 9 7 9 7 9 7 9 9 9 9 9	34 55 44 44 35	41 K K K K K K K K K K K K K K K K K K K	22 tt x x 7
CNF	1962	HUMTE	9 6 9 6 0 1	1172	16 17 18 20	21 22 23 24 25	26 23 29 29 21 21

	INT. EFFECT	15						10			16 Slow S-SWF	20	18	
2	WIDTH	92												
MEASUREMENTS	AREA S. D.	• 19	4.00	1.90	2.90 .90 1.00	1.10		.30 1.32	_	1.80	2.30	1.10	74.	טן יון
MERC	AREA S. Dec	• 14		1.90	2.60 .90 1.00	06 *	9.90	.30		1.80	2.20	.100	4 8	00
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· WI	POR-	1 1		1	1 1 1 1	1		1 - 1			7 - 1	<u></u>	1	
DURA.		MINUTES	31 D 33 D		34 D						26 D			
2	PLAGE	4059	6504		6504						6510	6510		_
LOCATION	LAT. MER	PATROL PATROL PATROL NOB E54 NO9 E55	PATROL N10 E48 N10 E47 PATROL	NOO WOT	FATROL N16 E25 S03 W02 S10 W02 S10 W03	PATROL N15 E38 PATROL PATROL PATROL	PATROL PATROL SO4 W30 PATROL	PATROL N11 E28 N09 E19 PATROL	PATROL PATROL PATROL	NO7 W15	NO9 W19 NO7 W23	NO7 W23	PATROL NO7 W38	COS WAS
	MAX.	A A A A A A A A A A A A A A A A A A A	DT DT	0026 NO FLARE	7 A X	NO FLARE NO FLARE NO FLARE	NO FLARE NO FLARE	NO FLARE 2006 2008 NO FLARE	NO FLARE NO FLARE NO FLARE	0156 NO FLARE	330	2331	NO FLARE	
OBSERVED UNIVERSAL TIME	END	0045 0120 0505 2300 D	0500 0609 0716 D 2020		0600 0800 0907 0955 D	0450 1020 D 1820 1900 2225 2400	0440 0555 0657 2350	0600 2015 2016 2400	0035 0140 0555	0200	0737 D 1648	1717 D 2341	0445	1558 D
	START	0000 0105 0205 2248	0000 0538 E 0643 E 1955	0024	0150 0726 E 0846 E 0854 E 1018 E	0055 0947 1800 1850 2125 2255	0000 0550 0645 2345	0200 2001 2002 2350	0000 0055 0205	0152	0711 E 1622	1633 E 2327	140	1520 F
DATE	AUG	01 01 01 01 01	02	03	00000	111111	0000	9000	07 07 07	0.8	8 8	800	60	00
	OBSERVATORY	SAC PEAK	WENDEL WENDEL	HONOLULU	ATHENES CAPRI S CAPRI S	CAPRI S	ATHENES	L LOCKHEED SAC PEAK		HONOLULU	CAPRI S	L MCMATH LOCKHEED	SAC PEAK	OAPRI S

OLAR FLARE

AUGUST 1962

PROVISIONAL	IONOSPHERIC	EFFECT						Slow S-SWF	
	MAX.	.°.	20 10 16	16 18 20		17	5	20 10 10 17	
	MAX	WIDTH Ha							
MEASUREMENTS	CORR	AREA Sq Deg	2.30 2.00 4.50 2.50 1.40	2.050 2.050 1.020 2.04 2.04 2.00	1.20	.14	7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	. 90 90 60 1 . 30 2 . 10 60	
ME	MEAS	AREA Sq Deg.	1.030 1.030 3.040 3.040 2.020 1.030	2.72 2.50 2.70 2.20 1.24 2.43	• 30	.14	. 70 . 80 . 80 . 80 . 70 . 70	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	TIME	t D	1949 1946 1954 2116 2115 2115	1539 1906 2007 2008 2008		2100		1624 1756 1923 2024 2045 2322	
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7	McMATH	PLAGE	6510 6510 6510	6507 6510 6507			6516 6516 6516 6514 6514	6514	
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	61	MAX. PHASE	1949 1946 1954 2116 2115 2115 2115	NO FLARE NO FLARE 1544 1539 2007 2008 2009 NO FLARE	NO FLARE NO FLARE NO FLARE NO FLARE	NO FLARE 1546 2100	~	1624 1756 1923 2024 2045 2322 0 766 2322 0 768	(
OBSERVED	UNIVERSAL TIME	END	2017 2022 2024 2134 2140 2140 2139	0140 0530 1558 1600 1908 2017 2018 2027 2027 2400	0005 0050 0520 0743 2305 2400	0455 1552 2106	0520 0640 0735 0730 0855 0851 1229 1317 0 1436 1631	1643 1804 1944 2031 2118 2312 U 2326 U 2400	
		START	1937 1940 E 1949 E 2108 2109 2110	0135 0155 1530 1904 2004 2004 2005 2340	0000 0025 0145 0735 2250 2345	0040 1544 2052	0115 0632 E 0714 E 0716 0755 E 0846 1222 E 1222 E 1253	1618 1749 1918 2020 2037 2304 2316 U	0
DATE		AUG 1962	0000000	0000000000		12 12 12			
•	Sacranagago	Obsenvaloni	LOCKHEED HONOLULU MCMATH MCMATH MCMATH LOCKHEED SAC PEAK	SAC PEAK MCMATH HONOLULU MCMATH HONOLULU SAC PEAK	ATHENES	SAC PEAK HONOLULU		LOCKHEED LOCKHEED LOCKHEED LOCKHEED SAC PEAK SAC PEAK SAC PEAK	

PROVISIONAL	IONOSPHERIC														S-SWF																												
MAX	INT.													_					20		20		20		_			_				17	0 0	-		10		20					
MAX.	WIDTH					2 20	J		2.20		3.00		C				1.50										0	2															
MEASUREMENTS CORR.	AREA Sq. Deg.		2.40	1.90	4.00	1.90	0	2.20		5 ° 00		0 † 0	1.90	000	00.6			• 50	• 30		• 30	040	.50	1.10				1.60	930	• 20	080	•31	000	070	78.0	090	060	• 20					1.00
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McMATH	PLAGE		6516		6516	4516	6516	6516	6516	6514	6514			0760	51			6514				6514		6514			ų.	† T C O	6514	51	6514			6514	1		6514						
APPROX.	LAT. MER DIST	501	NO4 E73	Ш	S01 E70	ПП	S01 E68	Ш	Ш	~	407 W14	407 W14	102 E68	104	NO1 E66		NO7 W15	406 W17	407 W17	PATROL	407 W17	NO7 W21	NO7 W17	407 W23	NO7 W23	PATROL	PATROL	NOS WZ4	100 M30	407 W30	NO6 W30	N22 E40	MIU WZB	000		NO5 W34		NO6 W32		-	PATROL	PATROL	409 W39
	MAX.	A RE						-			1109			777		_				NO FLARE	,	_		_		NO FLARE	FLARE							1708					RE	-	NO FLARE	FLARE	
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PROVISIONAL	IONOSPHERIC	EFFECT																																		S-SWF			
	MAX	IMI °°	82		18		16	1	17		10					10				10	10								20						,	7 7 0)		20
	MAX	WIDTH	2.40	1.80																												2.50		2.20	,)				
MEASUREMENTS	CORR	AREA Sq Deg	09	1	09.	0.00	1 (4)	3	•33	0 4 0	930	١				• 20		• 60	0	4	• 20	0			2.30	.5	1.20	4.	• 40		1.40		1.00		4	1.00	1.20	• 70	.80
	MEAS	AREA Sq Deg	55		•52	.20	1 0	N	• 29	• 30	0)				.20		0 0 0	7	• 30	. 20	4			2.20	000	930	040	. 20		1.30		1.00			1.00	1.20	.70	.80
	TIME	n T	1321	1341		1445)	1642		1720	2117	4				0013		1321	2	7.1	1741	24			N	00	10	N	2051		(L	0.800	2460	1132	1230	1655	1656	1857	1902
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DURA.	TION	MINUTES	14 D							-															40 D						ć	20 11 D		14	8				
	McMATH	PLAGE	6516			6514		6514		6514								6514	1		5 2	6514			6516	7,7	6514	52			- (6522		6514	52		S	6522	
LOCATION	APPROX	LAT. MER DIST	NOO E39	NO6 W41	N06 W42	NO6 W42	NO6 E43	NO7 W44	NO7 W44	NOS W444	N	PATROL	PATROL	PATROL	- OF A C	N13 E03	PATROL	N12 W58	NO4 W58	NO3 W53	NO3 E34	NO6 W64	2	PATROL	NO2 E14	NO5 ¥66 NO2 #25	NO4 W77	N01 E21	NO2 E21 NO3 E16	PATROL	NO2 E17	NO3 E14	N03 E14	NO4 W85	NOI EII	NOT LON	NO1 E09	NO1 E08	N02 E08
		MAX	1321		1446	630	632	1642	722	0	7 4 1 0	LARE	LARE	NO FLARE	0		10 FLARE	1321	1725	1717	1741	2240 NO FLARE	-	NO FLARE		421	806	051	2051 2315	NO FLARE	(L	5080			7 11 7	1650		1857	902
OBSERVED	VIVERSAL TIME	END	1333 D	1349	452	1445 D	1636	1646	726	725 D	133	140	320		ŭ	021	555	330	750	755		302 D		125	045 D	1105	1818	2101	2103	455	0736	0909 0952 D	1016 D	142	1236 D	7 00 4	1715	1915	1921
	Nn .	START	1319	1341 E	044	1444 E	- 0	63	718	72	7 [13	30	2350		0011	0135	1318	1707	1712	1736	2237	1	0000	1005	1056	1804	2048	2308	0000	0718	941	3 9460	1123	1228	1650	1656 E	1854	1854
DATE		AUG 1962	16	16	16	16	16	16	16	16	9 7	16	16	16	17	17	17	17	17	17	17	17	-	18	18	00 00	18	18	18	19	13	19	19	19	7 6	10	19	19	19
•	OBSERVATORY		ONDREJOV - SAC PFAK	L ONDREJOV		MCMATH	- SAC PEAK	MCMATH	T SAC PEAK	L MCMATH	1 OCKHEFD					LOCKHEED		MOMBATH MOMBATH	MOMATH	L LOCKHEED		MCMATH			CAPR1 S	- 7	MCMATH	MCMATH	LOCKHEED	i	ATHENES	ONDREJOV	L CAPRI S	ONDREJOV	ONDREJOV	T DOKHERD	- MCMATH	MCMATH	LOCKHEED

PROVISIONAL	IONOSPHERIC	EFFECT								Slow S-SWF								
	MAX.	INT.	20		15	17	10		20	19	17	20	17	17	20		21 21 20	
	MAX.	WIDTH На									1.40							
MEASUREMENTS	CORR.	AREA Sq. Deg.	0 89	3.80	• 19	1.03	• 70	. 20	• 30	1.10 2.09 3.90 .90	5 00 83	040	1.44	3.00	1.20	1.00	1.50	
-	MEAS.	AREA Sq. Deg.	0 88	3.80	• 14	1.07	•70	•20	• 30	2.02	643	•20	. 58		.20	•20	.58 .72 .30	
	TIME	L U	2316				0045	1348 1539 1720	0100	1432 1440 2309	1317	9000	1400	1635	1948	2133	2234	
OBS.	COND.		8	п	е	1	2 2	000	7	N N N N	. 3	1	ММ	3	7 7	e .	222	
Ϋ́	POR-	TANCE	1	+ +	1-	i	1-1	1 1 1	1-	1 1	1 + 1	1 1	1 1 1	1 1 1	1 -	1 1	1 1 1	
DURA.	TION	MINUTES		45 D	h					30 41 D	156 D			28 D	,			
	McMATH	PLAGE		6522	7770			6516 6516 6516 6516		6522 6522 6522 6522	6529			6529	2	6259		
LOCATION	APPROX.	LAT. MER. DIST.	PATROL PATROL NO2 E08	VOZ EOZ	NIZ E56	PATROL NO2 E75 PATROL	405 W21	MO1 W26 NO1 W27 NO1 W27	00M 00N	NO3 W31 NO4 W30 NO5 W29 NO6 E85	PATROL S12 W68 S12 W67 S13 W68	512 W68 512 W70	02				S13 W89 S12 W89 S17 W90	PATROL
		MAX	NO FLARE POST NO	NO FLARE	NO FLARE			1348 1348 1539 1720		D.	NO FLARE	500	NO FLARE	1638 1635			2140 2234 2234	NO FLARE
OBSERVED	UNIVERSAL TIME	END	2225 2400 2336	۵		1900 2122 D 2335		0500 1353 1548 1726		1450 D 1450 D 1507 2312	0530 1336 1635 D 1625 D		0 0		1952 2155	2158	2250 U 2252 2247	0090
		START	2200 2240 2306	0000 0540 E		1855 1855 2112 2325	0038	0205 1342 1538 1718	9500	1419 1420 1426 2307	0205 1315 E 1359 E 1608	1622 E 2357	0205 0833 E 1332 1359 E		1947 E 2127	2128	2128 E 2213 2225	0205
DATE		AUG 1962	19 19 19	20	2000	2000	21	21 21 21 21 21 21 21 21 21 21 21 21 21 2	22	22 22 22 22 22 22 22 22 22 22 22 22 22	23 23 23 23 23 23 23 23 23 23 23 23 23 2	23	24 24 24 24	24 24 24	24	24	24 24 24	25
	OBSERVATORY		ГОСКНЕЕБ	ATHENES	SAC PEAK	SAC PEAK	LOCKHEED	MCMATH MCMATH MCMATH	LOCKHEED	MCMATH SAC PEAK CAPRI S MCMATH	ONDREJOV WENDEL SAC PEAK	LOCKHEED	WENDEL SAC PEAK CAPRI S	WENDEL SAC PEAK LOCKHEED	MCMATH LOCKHEED	MCMATH MCMATH	L SAC PEAK T SAC PEAK LOCKHEED	

SOLAR FLARES

PROVISIONAL IONOSPHERIC EFFECT

		MAX INT.		10			α	17					****	10
		MAX. WIDTH Ha				-								
	MEASUREMENTS	CORR. AREA Sq. Deg.		1.00	1.50	2.00	1.90	3.10	1.00	• 30			3 • 00	• 10
	ME	MEAS AREA Sq Dog.		• 20	• 31	1.40	.30	. 60	• 20	• 20				•10
		TIME U T		1627	2058	0150	1435	1436	1839	2252				2226
	OBS.	COND		1/1	2	2 2	2.0	1 W V	2	2				1
	IM.	POR-) - 1 -	1	1 1	1 - 1		1	1-				1-
AUGUST 1962	DURA-	TION		25 D		19 D		8 D					15 D	
AUG		McMATH PLAGE REGION				6538	6538	6538	6538			-	6542	
	LOCATION	APPROX. AT. MER DIST.	PATROL PATROL	PATROL SO6 W21 NO4 W90 PATROL	PATROL NOS W90 PATROL	NO7 W55 PATROL NO1 W11 SO7 E81	E86	8 E80	SOB E81 PATROL	PATROL NO7 E48	PATROL PATROL	PATROL PATROL	PATROL PATROL NOB E35 PATROL	PATROL N27 W13
		APF	PAT				508	\$08 \$08		PAI	PAP	PAP	P P P P P P P P P P P P P P P P P P P	
		MAX. PHASE	NO FLARE	NO FLARE 0900 1627 NO FLARE	NO FLARE 2058 NO FLARE	0150 NO FLARE	1435	1836	NO FLARE	NO FLARE 2252	NO FLARE	NO FLARE	NO FLARE NO FLARE NO FLARE	NO FLARE 2226
	OBSERVED	UNIVERSAL TIME	1720	0550 0915 D 1640 1800	1830 2119 2355	0152 D 0505 0650 D 0954 D		1441 D 1844	1845	0545	0125	0515	۵	2130 2233
		START	1625 1730	0200 0850 E 1622	1825 2042 2345	0148 E 0200 0635 E 0935 E		1433 E 1832	1839 E 2345	0205	0120	0205	0125 0145 1112 E 2020	2115
	DATE	AUG	25 25	26 26 26 26	26 26 26	27 27 27 27	27	27	27	28	29	30	31 31 31	31
		OBSERVATORY		I STANBUL LOCKHEED	HONOLULU	HONOLULU ATHENES WENDEL	WENDEL MCMATH		- MCMATH	MCMATH			WENDEL	LOCKHEED

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BERGH,		A, USSR	C, N.MEX. USA	DEN	FR		Nr.	UTE-PROVENCE
NEDERHORST den BERGH,	NETHERLANDS	KRASNAYA PAKHRA, USSR	SACRAMENTO PEAK	STOCKHOLM, SWEI	SCHAUINSLAND, GFR	TASHKENT, USSR	WENDELSTEIN, GFR	HTE-PROVEN = HAUTE-PROVENCE
NERA		NIZMIR	SAC PEAK	SALTSJÖBADEN	SCHAUINS	TACHKENT	WENDEL	
HAWAII, USA	KYOTO, JAPAN	KIEV GAO, USSR	KIEV UNIVERSITY, .USSR	LOS ANGELES, CALIF., USA	MCMATH-HULBERT .	PONTIAC, MICH., USA	MOSCOW-GAISH, USSR	
HONOLULU	IKOMASAN	KIEV KO	KIEV KY	LOCKHEED	MCMA TH		MOSCOU	
ATHENS, GREECE	PIRCULI, USSR	ROYAL OBSERVATORY,	CAPE OF GOOD HOPE	CAPRI, ITALY (GERMAN)	CAPRI, ITALY (SWEDISH)	SIMEIZ, USSR	ROYAL GREENWICH OBSERVATORY,	HERSTMONCEUX, ENGLAND
A THENES	BAKOU	CAPETOWN		CAPRI F	CAPRI S	CRIMÉE	HERS TMONCEU	

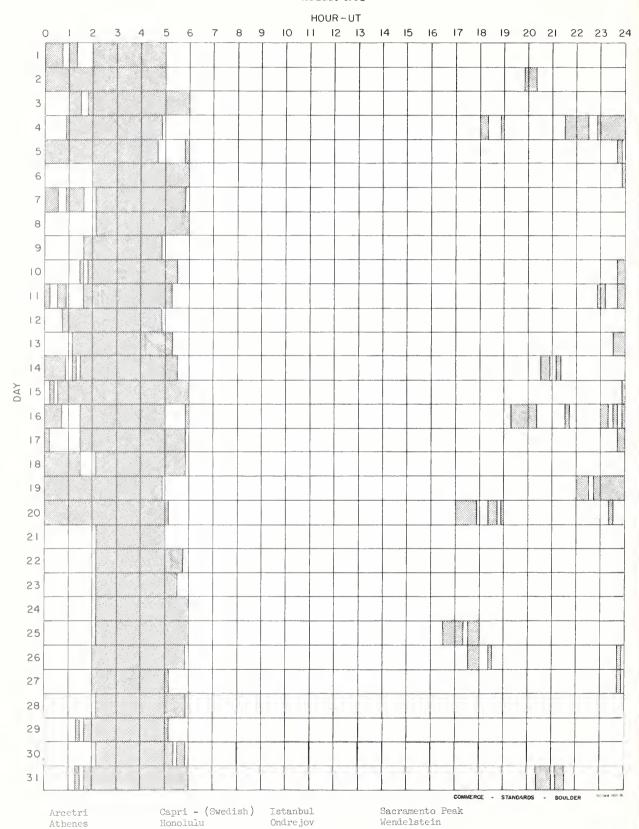
ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

SEE DESCRIPTIVE TEXT PUBLISHED NOVEWBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIDAX, HAWAII, LOCKHEED AND SACRAMENTO PEAK.

E = LESS THAN D = GREATER THAN U = APPROXIMATE

□ = NOT REPORTED.

AUGUST 1962



SOLAR FLARES MAY 1962

PROVISIONAL IONOSPHERIC EFFECT	PL PC1	S-SWF	G-SWF	S-SWF								
MAX INT.		8 7		81 59 69						-		
MAX. WIDTH	На											
	Sq. Deg.	6.50 6.80 1.00 2.40	2 • 90 1 • 00 4 • 00 2 • 00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				3 • 30			1.30	1.50
CAS.	Sq Deg.	2.00	1.10 .50 1.50	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				2 • 00			1.00	1 • 00
TIME	n r	0645 0954 1010 1040 1159	1252 1325 1356 1420	0213 0656 0700 0704 0654	1420		0854	0829			1402	0933
OBS. COND.		NMNM	2 2	N N N N			6	2	4		NMM	664
IM. POR. TANCE		2 2 1 1 1 7 5 7	1	+ + + + + + + + + + + + + + + + + + + +			1-	-1	1-		1 1 1	
DURA.	MINUTES	44 D 14 D	57 24 D	31 60 61 24 28 28 35 0				7 D			80 D 36 D	
, –	REGION	6411 6411 6411	6411	6403 6403 6403 6403 6403 6403				6412			6414	
LOCATION APPROX.	DIST	E657 E657 E657 E665	пшшшш	E E E E E E E E E E E E E E E E E E E		PATROL PATROL	E12	E55	PATROL N15 E30	E E E E E E E E E E E E E E E E E E E	W41 W42 W42	W51 W60 E42
AP)	4	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	X X X X X X X X X X X X X X X X X X X	111.01	N 18	N 1 5	fi I	\$17 \$17 \$17 \$17 \$17 \$17	\$16 \$18 \$18	\$18 \$18 \$10
MAX	PHASE	0652 0954 1010 1040 1159	1252 1325 1356 1420	0213 0652 0656 0700 0704 0652	1420	NO FLARE NO FLARE	0854		NO FLAR			
OBSERVED UNIVERSAL TIME END		729	1400 U 1344 1342 D 1417 D 1438 D	0237 0730 0740 0716 0720 0720 0720	0922 1048 1110 1110 1353 1429	1005	0903 D	0835 D	0220	0827 D 1050 1105 D 1205 D 1309	1442 D 1615 1726 D	0937 D 1431 1510
START		0645 E 0648 E 0953 E 1010 1150	1247 1325 E 1353 1420 E	0206 0630 0639 E 0652 E 0652 E 0652 E	0920 1043 1104 1106 1347 1418	0950	0852	0828 E	0205	0825 E 1039 E 1055 E 1149 E 1222	1400 E 1455 E 1650	0933 E 1415 1435
MAY	1962	0010001	00000	m m m m m m m		040	90	0.7	08	666666	10	111
OBSERVATORY		CAPETOWN ABASTUMANI UCCLE CAPRI F UCCLE	MEUUUN CAPETOWN CAPRI F CAPRI F	ALMA-ATA MEUDON CAPETOWN BAKOU BAKOU CAPRI F ABASTUMANI	00000000000000000000000000000000000000		UCCLE	CAPRI F	UCCLE	NCCLE NCCLE NCCLE NCCLE NCCLE	CAPKI F UCCLE UCCLE	CAPRI F UCCLE UCCLE

SOLAR FLARES

	PROVISIONAL	EFFECT			Slow S-SWF								
	MAX	INT.											
	MAX.	WIDTH				1.80					-		
MEASUREMENTS	CORR	AREA Sq Deg	1 • 30	1.20	1.50	2.20			1.30	1 10 4 00 4 00 00 00 00 00 00 00 00 00 00 0	1.40		3.20
MEA	MEAS	AREA Sq Deg	1 • 0 0	1.00	1.50 1.93 1.80	2.20			1 • 00	0 00 8 00 0	1.00		1.10
	TIME	L D	1619	0655	0858	1148		-	1158	1239 1421 1534	0616		1056
OBS	COND.		111111	2 2	-1-1	2			m	N M M M M M	2	т	2
2	POB.	TANCE			t				1			-1	
•	DURA-	MINUTES		26 D	18 D 47 D	54 29 D				16 D 11 D			12 D
	McMATH	PLAGE		6416	6416 6416	6416				6416 6416			6426
LOCATION	APPROX	LAT. MER. DIST	\$518	PATROL PATROL SO6 E31 SO8 E27	PATROL SO7 E20 SO7 E19 SO7 E19	508 E04 509 E05	PATROL PATROL PATROL	PATROL PATROL PATROL	PATROL PATROL SOB W39	SO7 W51 SO7 W51 SO2 W50 SO2 W50 NO5 W56 NO5 W56	PATROL NOS E43	PATROL S11 E30	N16 E69 N14 E72
	-	MAX	1619	NO FLARE NO FLARE	NO FLARE 0858 0911 0855	1148	NO FLARE NO FLARE NO FLARE	NO FLARE NO FLARE NO FLARE	NO FLARE NO FLARE	NO FLARE 1421 1534	NO FLARE	NO FLARE	1056
OBSERVED	UNIVERSAL TIME	END	1458 1610 1559 D 1556 1604 1619 1638	0120 0255 0707 D 1416 D	0640 0929 D 0911 D 0942 D	1232	0135 0240 0710 2400	0300	0510 1040 1212 D	1115 1252 D 1408 1431 D 1545 D 1616	0300 0645 D	0635 1026 D	1102 1109 D
	ח	START	1450 1552 1517 1531 1550 1602 1610	0115 0250 0652 E 1350 E	0635 0852 0853 0855 E	1138 1142 E	0120 0145 0605 2320	0000 0620 2325	0000 1035 1157 E	1100 1237 E 1343 1415 E 1534 E 1601 E	0230 0614 E	0625 1018 E	1054 1057 E
DATE	1100	MAY 1962		12 12 12 12	13333	14	15	16 16 16	17	18 18 18 18 18	19	20	21
	No.	OBSERVATORY	UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE	CAPRI F CAPRI F	CAPETOWN CRIMEE ABASTUMANI	CAPETOWN KHARKOV			CAPRI F	CAPRI UCCLE UCCLE UCCLE UCCLE	CAPRI F	UCCLE	CAPETOWN CAPRI F

SOLAR FLARES MAY 1962

PROVISIONAL IONOSPHERIC EFFECT						
MAX INT.	52			65	08	70
MAX. WIDTH						
CORR. AREA Sq. Dog.		11	1 • 39	1 • 80	1 . 00	3.70
MEAS. AREA Sq. Deg.	•41	2 . 5 . 0 . 2	1.16	00	1.00	2.20
TIME	0258	00 00 00 00 00 00 00 00 00 00 00 00 00		0204	0610 1145 1240	0724
COND.		NN444 N4444444444444444444444444444444	4 10 10 10		<u> </u>	2 6
IM. POR. TANCE			1 1 1 1	1 1	1	
DURA. TION -		8 D D D		35 D	33 D 17 D	175 D
McMATH PLAGE REGION		6427 6426 6427 6427		6427	6427	6426
APPROX. LAT. MER. DIST.	PATROL SOB EBO PATROL	N16 E38 S008 E63 S008 E63 S008 E63 S008 W13 N11 E41 N11 E41 N11 E43 N14 E43 S008 W13 N14 E43 N14 E43 S008 W13 N14 E43 N14 E43 S008 W13 S008 W14 S008 W14 S00	SO7 E50 N13 E28 N12 E28 SO7 E48 PATROL	PATROL SOB E41 SO9 E40 PATROL	1 0,0,0,0,	N12 W42
MAX.	NO FLARE 0258 NO FLARE	0652 0858 0958 0959 1034 1239	1012 1010 NO FLARE	NO FLARE 0204 1006 NO FLARE		0934
OBSERVED UNIVERSAL TIME END	0215 0259 D 0335	0658 0701 0918 D 0918 D 0918 D 1016 D 11008 11230 11230 11230 11323 D 11323 D 11323 D 11323 D 11416 11323 D 11416 11408	0923 1031 D 1021 D 1012 D 2325	150 210 D 015		0949 D 0754
START	0200 0256 E 0305	0652 0652 0855 0855 0855 0855 0855 1023 11205 11205 11223 11223 11322 11322 11332 11332 11332 11337 1137 11337 11337 11337 11337 11337 11337 11337 11337 11337 11337 113	0909 1001 E 1003 E 1008 2310	0125 0200 E 0940 E	56 70 70 23	0654 E 0708 E
MAY 1962	22 22 22 22	222222222222222222222222222222222222222	24 24 24 24 24	25 25 25 25 25 25 25 25 25 25 25 25 25 2	27 27 27 27 27 27 27 27 27 27 27 27 27 2	29
OBSERVATORY	ALMA-ATA	CAPRIF CAPRIF UCCLE UCCLE CAPRIF CAPRIF CAPRIF CAPRIF UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE UCCLE	UCCLE UCCLE ABASTUMANI UCCLE	ALMA-ATA NIZMIR	CAPRI F NIZMIR CAPRI F CAPRI F	ABASTUMANI NIZMIR CAPRI F

SOLAR FLARES
MAY 1962

PHOVISIONAL IONOSPHERIC EFFECT																														
PROV IONO																												G-SWF		
MAX.	·																					99	71	56						20
MAX. WIDTH	На																												1.80	
MEASUREMENTS CORR AREA	Sq Deg.	3 • 30	1.70	1.80	1,30													3.20	2000	1.50	1.60				09.	6.80		7.70	4.60	
	Sq. Deg	2.50	1.30	1.30	1.00												0	000	0.00	1.20	1.00	080	1.26	.72	•25	2.30		3.50	1.70	3.61
TIME	10	0723	0834	0934	0945												7	7777	0 1 2 2	0810	0814			0202	0955	1148		1145	1130	1146
OBS. COND.			2		6	3	m	3	6	3	9	9	3	М	8	3	r	J	60		m	2	2		3			4	-1	-
IM. POR. TANCE		-	1	1-	+	1	1-	1	-		1	1	1	1-	+	1-	-		1	1-	+	1-	1	1-	1-	2	2	2		+
DURA.	MINUTES	32																26)							167 D			55 D	
	REGION	6426																7077	3							6426		6426	9779	9249
APPROX.	DIST		M40	W42	W41	W43	W25							W25		W25	1/5	-				W45	-	W48	69M		W70	M69	-	M69
API LAT.	_	N13	N14	N15	N14	N16	N11	N16	N16	N11	N16	N11	N16	NIT	N16	N11		7 T N	1 N	806	806	507	511	511	N15	N15	N15	N14	N13	NIS
MAX.	PHASE	0723		0934		1007			1107								7 7 7 7	07.57		0810		0032	0210	0202		1101	1148	1145		1146
OBSERVED UNIVERSAL TIME END		6440	0848	0958	9560	1038	1033	1119	1119	11119	1201	1201	1254	1224	1354	1312	0.00	2200	0823	0817	0818	0038	0212	0215 D			1333 D	1230 D		1200 D
START		7	0833 E	0932		1003 €	1016	1047 E	1101	1106		1142 E	1156	1206	1206	1302	1220	0752	0754	0808	0812	0029	0157	0157 E	0953	1046	1046		1125 E	
DATE MAY 106.2	707					59	59	58	59	59	58	59	58	58	59	58				30		-					31	31	31	31
OBSERVATORY		CAPETOWN	CAPRI F	- CAPETOWN	CAPRI F	UCCLE	UCCLE	UCCLE	UCCLE	UCCLE	UCCLE	UCCLE	UCCLE	UCCLE	UCCLE	UCCLE	7 CO C	NACTEDAN		CAPETOWN	CAPRI F	VOROSHILOV	VOROSHILOV	- ALMA-ATA	CAPRI F	CAPETOWN	CAPETOWN	- CAPRI F	☐ KHARKOV	∟ KIEV KO

- BOULDER

SOLAR FLARES MAY 1962

These flare reports are addenda to the May 1962 flares published in CRPL-F 214 Part B, June 1902.

NEDERHORST den BERGH, NETHERLANDS	KRASNAYA PAKHRA, USSR SACRAMENTO PFAK N.MFX 11SA		SCHAUINSLAND, GFR TASHKENT, USSR	WENDELSTEIN, GFR HTE-PROVEN = HAUTE-PROVENCE
NERA	NIZMIR SAC PEAK	SALTSJÖBADEN	SCHAUINS TACHKENT	WENDEL
HAWAII, USA KYOTO, JAPAN	KIEV GAO, USSR KIEV UNIVERSITY, USSR	LOS ANGELES, CALIF., USA	MCMATH-HULBERT PONTLAC, MICH., USA	MOSCOW-GAISH, USSR
HONGLULU IKOMASAN			MCMA TH	MOSCOU
ATHENS, GREECE PIRCULI, USSR	ROYAL OBSERVATORY, CAPE OF GOOD HOPE	CAPRI, ITALY (GERMAN)	CAPRI, ITALY (SWEDISH) SIMEIZ, USSR	IMONCEU ROYAL GREENWICH OBSERVATORY, HERSTMONCEUX, ENGLAND
A The wes BAKOU	CAPETOWN	CAPRI F	CAPRI S CRIMEE	HERSTMONCEU

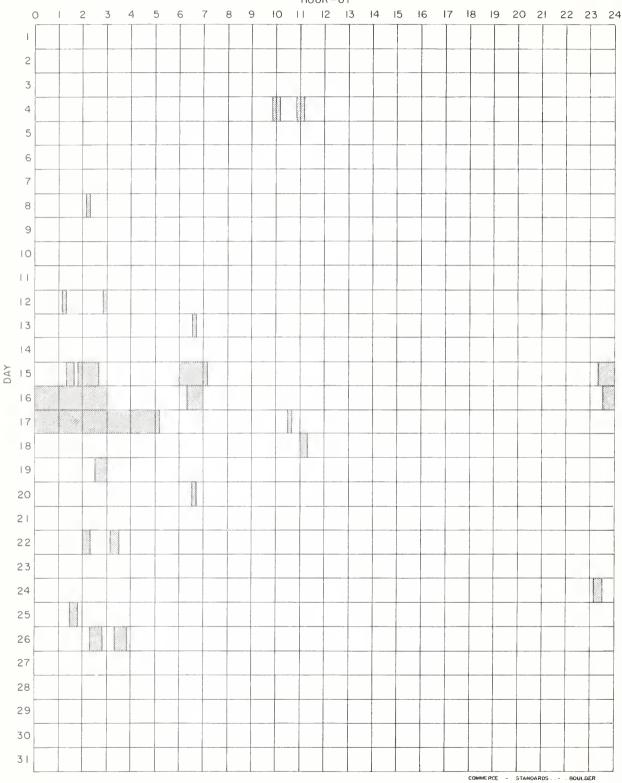
ALL VALUES IN THE MAXIMUM INTENSITY COLUMN FOR SAC PEAK ARE ARBITRARY UNITS (0-40) AND FOR LOCKHEED ARE ARBITRARY UNITS (10-40), NOT PERCENT OF CONTINUOUS SPECTRUM.

SEE DESCRIPTIVE TEXT PUBLISHED NOVEMBER 1961 FOR DEFINITION OF CORRECTED AREA VALUES LISTED FOR CLIMAX, HAWAII, LOCKHEED AND SACRAMENTU PEAR.

E = LESS THAN

MAY 1962





Alma-Ata Bakou Bucharest Capetown

Capri (German) Capri (Swedish) Climax Dunsink Haute - Provence Kiev Ko

Herstmonceux

Honolulu Huancayo Ikomasan Istanbul Kharkov

Kodaikanal Locarno Lockheed McMath-Hulbert Meudon Mitaka

Moscou Nizamiah Nizmir Ondrejov Sacramento Peak Saltsjöbaden

Sydney Tachkent Uccle Voroshilov Wendelstein Zurich

SHORT WAVE RADIO FADEOUTS SUDDEN COSMIC NOISE ABSORPTION SUDDEN ENHANCEMENTS OF ATMOSPHERICS SUDDEN PHASE ANOMALIES SOLAR NOISE BURSTS AT 18 Mc

JULY 1962

JULY ,	UN	VERSAL_T	ME	SWF				IMPORTA	NGE		WIDE	STATIONS	KNOWN
1962	START	END	MAX	TYPE	IMP	ABS	SCNA	SEA	SPA	BUR	SPREAD INDEX		FLARE
01	1803	1920		SL	1+						5	HU PR AO	
02	1435	1657		G	3+						4	HU PR	
03	1725	1743		SL	1-						5	PR BO HU WS	
04	2035	2135		G	1						4	ws Hu	
* 05 * 05 * 05 05 05 05 05 05 05 05 05 05	1429 1708 1715 1716 1716 1717 1749 1930 1935 1935 1938 1939 1940	1431 1745 1730 1726 1800 1728 1753 1955 2001 2030 2000 2005 2000	1716 1720 1721 1725 1940 1944 1943 1947	S SL S		10		3 1 3+	35	1	4 1 2 2 3 5 3 3 1 5 5 4	MC BO A9 A1 MC A5 B0 B0 MC (Gradual onset) MC A10 BE MC PR MC HA B0 A9 A1 A5 BE MC PR 80 B0 HA MC HA MC HA MC B0 MC B0 HA MC HA MC B0 MC A10 BE MC PR	1716
06 06 06	1420 1501 1557 1718	1432 1550 1633 1735		S G G SL	1- 1+ 1						4 4	HU PR BE HU WS BE PR PR 80 WS	
07	1303	1328		S	1+						4	PR HU	
08	1350	1430		SL	1+						4	HU PR	
09	1803	1950		G	2		ı				4	PR HU	
11	1506	1550		SL	1+						1	ни	1501E
18	1722	1756		S	1						3	WS PR	1735
20 20 20	1515 2243 2302	1539 2246 2305		G	2+					1	4 5 5	WS PR HU HA MA HA MA	
21 21	1510 1630	1555 1706		SL SL	1+						5 4	HU MC HU PR	1451E
24	0018	0021								1	5	на ма	
25	1658	1932		G	2						4	BE BO HU WS	
29	1804	1900		G	1						4	BE HU PR	1813
31 31	1500 1638	1528 1658		SL SL	2						4	WS HU MC HU WS PR	

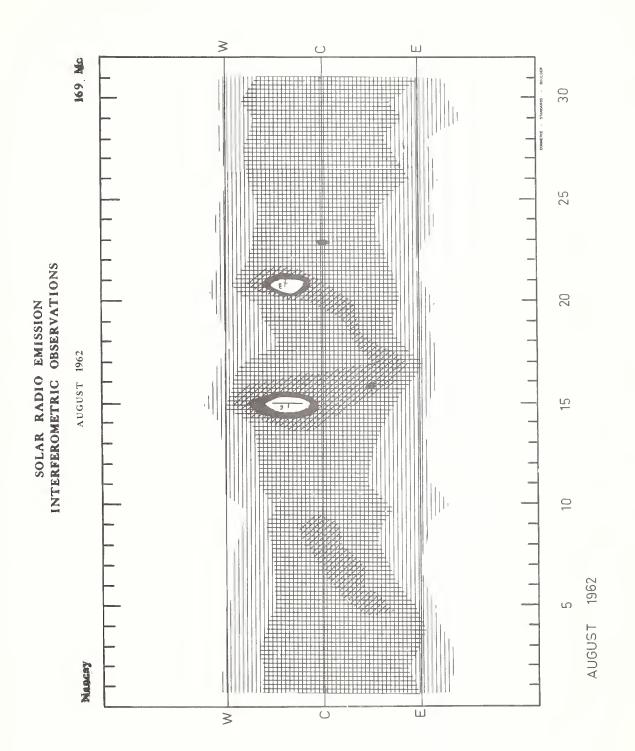
SOLAR RADIO EMISSION OUTSTANDING OCCURRENCES

SEPTEMBER 1962

ARO-OTTAWA

2800 MC.

Aug.	Type	Start UT	Duration	Me	aximum		Hemarks
1962			Hrs·Mins	Time UT	Peak Flux	Mean Flux	
13	2 Simple 2 f 4 Post Increase	2039.5	2.6 30	2041	23 2	7	
15	8 Group (2) 2 Simple 2 6 Complex	2305.5 2305.5 2307.5	5 1.5 3	2306 2308.5	22 9	6	
16	8 Group (3) 1 Simple 1 2 Simple 2 f 2 Simple 2 5 Absorption	1250 1250 1255.5 1257.9 1300	30 1 1.5 2.1 20	1250.5 1255.6 1258	4 10 8 - 2	1.5 2.5 2.5 - 1.5	
19 22 29 29	1 Simple 1 3 Simple 3 2 Simple 2 f 2 Simple 2 f	1128.3 1422 1214 1410.8	3 1 35 1	1129 1435 1214.3 1411	6 3 9 8	2.5	



SOLAR RADIO EMISSION

OUTSTANDING OCCURRENCES

AUGUST 1962

BOULDER

108 Mc.

Aug 1962	Туре	Start UT	Time of Maximum UT	Duration Minutes	Intensity
1 7 7 8	3 6 3 3 6	1811.4 1209E 1214.4 1246.1 1210E	1812.1 ~ 1215.5 1246.6	1.7 110D 1.9 1.7 120D	3 3 2 1
9 9 9 9	6 3 3 3 3	1210E 1244.9 1552.7 1555.0 1613.1	1245.6 1553.0 1555.9 1613.5	125D 1.5 0.8 1.9 1.8	1 2 2 2 2
12 13 13 13 13	3 6 3 3	1727.0 1214E 1252.1 1353.9 2039.5	1727.7 1344.1 1253.3 1354.2 2040.3	1.1 105D 1.8 1.4 1.5	3 1 3 3 2
14 15 18 19 19	3 3 3 2 3 3	1334.2 0059.9 1423.1 1227.1 1653.3 1901.0	1336.5 0001.0 1423.8 1228.4 1654.0 1901.1	1.8 3.1 1.2 1.8 1.5	3 2 3 3 3 2

COMMERCE - STANDARDS - BOULDER

NOMINAL TIMES OF OBSERVATION OUTSTANDING OCCURRENCES

AUGUST 1962

BOULDER

108 Mc.

Aug. 1962	U. T.		Aug. 1962	U. T.		
1 2 3 4		6-2135	19 20	1220-0135 1221-1445; 1710-0133	I	1959 - 2255
5	1206-0152 I 191 1207-0151	.3-2256	21 22	1222-2147 1653-0130	I	1854 - 2147 2300 - 0050
6 7 8 9	1555-1953; 2030-0150 1209-0148 1210-0147 1210-0146 I 184	0-0146	23 24 25 26 27	1224-0129 1225-0127 1332-2240 No usable re 1720-0123	I ecord	1753-0129
10 11 12 13	1211-2022; 2120-0145 1212-0143 1213-0142 I 150 1214-1854; 1905-0142	0-0052	28 29 30 31	1229-0121 1229-0120 1230-0118 1231-0117	I	2050 - 2310
14 15 16 17 18	1216-1541 I 121 No usable record 2052-0137 I 205	5-1940 6-1541 2-2330 6-2335				

SOLAR RADIO EMISSION SPECTRUM OBSERVATIONS

AUGUST 1962

HAO BOULDER

7.6-41 MC

Date		Bursts			Date		Bursts		
1962	Tyre	Time (U.T.)	Inten- sity	Frequency Range (mc)	1962	Type	Time (U.T.)	Inten-	Frequency Range (mc)
l Aug	III III III III	1619-1619.30 1620-1620.45 1621.15-1621.30 1624.30-1701 1703.45-1704.30	1 1- 1 1	11.5-41 12-31 18-41 8-41 7.6-41	13 Aug 14	III III III III	2445-2445.30 1518.45-1519.15 1520-1520.30 2148.45-2149.15 1541-1542	1+ 1- 1- 1	23-41 21-41 20-61 22-61 12-41
2	III III III	1932.30-1940.45 2257.45-2259 2303.30-2304.45 2433-2433.30 1452.45-1453.30	1- 1+ 1 1	21-41 7.6-41 13.5-41 16-41 22-35		III III III III	1707.45-1708 1830-1830.30 1859-1859.15 1905.45-1906.15 1947.45-1949	1- 1- 1 1- 2-	27-41 21-32 16-28 22-40 7.6-41
3 6 10 13	III III III	2423.30-2424 1501-1501.15 2026.15-2027 2005.45-2008 1416.30-1417	1+ I= 1+ 2= 1	16-41 21.38 7.6-41 7.6-41 12-41		III III III III	1950-1950.15 2001-2003 2010.15-2010.45 2013.45-2015 2016-2017	1 2- 1 1 1	21-33 8-41 23-38 16-39 22-41
	III III III III	1417.45-1418.15 1419.30-1420 1431.30-1431.45 1432.45-1433.30 1434-1434.30	1 1+ 1- 1+ 1	12-41 12-41 22-33 12-41 12-5-41		III III III III	2017-2018.45 2035.15-2036.15 2041.15-2043.15 2049.15-2049.45 2053.15-2055.30		1°-41 20-41 7.6-41 20-41 7.6-41
}	III III III III	1434.30-1435 1437.15-1437.30 1453.30-1454.15 1506.30-1507 1518.15-1519	1+ 1- 1- 1+ 1-	12.5-41 21-41 22-41 20-41 21-41		III III III III	2110.30-2111 2141.30-2142 2150.30-2151.15 2212-2212.15 2219.45-2220.30	1-	22-41 26-40 20-41 21-41 15-41
	III III III III	1519.45-1520.30 1527.70-1527.45 1544.45-1545 1630.45-1631.15 1834.15-1834.30	1+ 1+ 1 1-	21-41 20-41 24-41 24-37 21-41		III III III III	2231.15-2231.45 2078.15-3078.45 2252.30-2253.30 2305.30-2710 2406.15-2406.30	1+2	75-41 26-41 16-41 7-6-41 21-41
	III III III	1911.15-1912.15 1918.45-1920.45 1921-1922 1924.45-1925 1925.30-1926	1+ 2- 2- 1- 1+	8-41 7.6-41 7.6-41 23-41 7.6-41	16	III III III III	2412.15-2411.45 1401.45-1402.15 1404.45-1417.15 1431.34-1477.15 1438.30-1441	1-	15-41 26-41 27-41 9-41 8.5-41
	III III III III	1936-1936-15 1959-30-1939-45 2009-15-2009-45 2014-45-2015-30 2016-15-2016-45	1- 1- 1+ 1	20-38 21-41 19-41 20-41 21-41		III III III III	1442.45-1444.45 1445-1447 1606.30-1607.15 1612.30-1613 1628.15-1628.30	2 1- 1-	11-41 7.6-41 27-38 16-40 18-40
	III continuum III III	2033.45-2034 n 2035.15-2045.45 2039.45-2041.30 2045-2046.15 2048.45-2050.30	1- 1 2 2- 2	21-34 12-41 7.6-41 7.6-41 7.6-41		III III III continu	1675.30-1636 1651.30-1652 1735-1735.30 um 1800-2000 1803.15-1803.30	1 1- 1 1-	21-38 21-33 24-41 23-41 20-41
	III III III	2124.15-2126.30 2126.45-2127.15 2127.30-2128.15 2130-2131 2211-2212.15	2- 1 1 1 1+	8-41 21-40 22-40 11-41 12-41	18	III III III III	1809.15-1809.45 2240.15-2240.30 2351-2331.30 2459.30-2459.45 1402.15-1403	1-	22-41 22-41 22-35 25-38 15-37
	III III III III	2213.30-2215 2304-2305.30 2309-2309.45 2310.30-2311 2314.15-2314.30	1- 2- 1 1- 1	18-41 11-41 20-41 22-41 21-41		III III III III	1406.30-1407.30 1414.45-1415.15 1415.30-1417 1417.30-1419.30 1420.15-1421.30	1 1+ 1	12-40 16-38 11-40 16-41 8.5-41
	III III III	2317.45-2318.15 2318.45-2319.30 2321.15-2322.45 2349.30-2351 2442.30-2443.15	1 1+ 1	17-41 17-41 11-41 20-41		III III III III	1551.45-1552.15 1558.15-1559.15 1609-1609.30 1639.15-1640.30 1700.15-1703	1 1- 1+ 2-	16-33 11-41 21-36 8-36 7-6-41

ORIGINATOR - BOULDER

SOLAR RADIO EMISSION SPECTRUM OBSERVATIONS

AUGUST 1962

HAO BOULDER

7.6 - 41 MC

Date		Bursts			Date		Bursts		
1962	Type	Time (U.T.)	Inten- sity	Frequency Range (mc)	1962	Туре	Time (U.T.)	Inten- sity	Frequency Range (mc)
18 Aug	III III III III	1703.15-1704.45 1851-1853.30 1854-1855 1855-1856.45 1859.15-1859.45	1+ 1+ 1+ 2= 1	7.6-41 7.6-38 7.6-41 7.6-41 21-41	22 Aug 24	III III III III	2336-2337.15 2341.45-2342.15 1354.30-1355 1356.30-1357.15 1632.30-1633	1 1- 1 1- 1	16-41 21-38 21-41 21-41 21-41
	III III III III	1902.15-1902.30 1956.15-1957.45 2902.15-2902.45 2017.45-2019.45 2016.45-2047	1	16-41 8.5-41 22-41 7.6-41 18-37		III III III III	1046.30-1947.15 2027-2027.15 2049.30-2050 2106.45-2107 2137.45-2134.30	1- 1- 1 1- 1-	24-39 24-37 21-41 24-41 12-41
	III III III III	2047.45-2048.45 2040.15-2051 2051.15-2052.45 2052.45-2054.15 2138.45-2139.15	1+ 1+ 1	8-40 7-6-41 7-6-41 7-6-41 20-35	28	III III III III	2136.45-2177.30 2219-2219.30 2327.30-2328.30 1437-1437.30 1519-1523	1+ 1- 1 1- 1-	12-41 23-39 20-40 22-41 28-41
10	III III III continuu III	2251-2251.30 1540-1540.30 1640.30-1650 m 1650.30-1655.30 *b1850-1850.45	1 1- 1 2	11-38 26-38 8-41 7.6-41	30	III III III III	15:70-1521.30 23:49-2250 2250.15-2250.45 1739.30-1730.45 1739.45-1740	1 1 1- 1	28-41 16-41 16-41 22-41 24-41
27	III III III III	1055.15-1955.30 1417.45-1418 1654.15-1654.30 2324.30-2325.30 1716.15-1717.45	1-	73-41 18-35 23-39 16.5-41 7.6-35	31	III	1757.15-1757.45 1758-1758.30 2325.30-2325.45	1-1-1	7.6-35 7.6-35 16-41
	.1 111 111 111	1718.30-1710.45 1912-1914.15 2000.45-2011.15 1/37.45-1640 2320.30-2330 * Lo observations	1 1 3	7.6-41 7.6-38 8.5-40 7.6-41 21-38					

CONTREPCE - STANDARDS - BOULDER

er 06 04 01-00-01-03-02-13-03-13

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

9.1 cm

0.3 50 or 4/11 12 pg (20.90 or 10.70 or 10.80 or 10.90 pg (12.80 or 10.80 or 10.80 pg (12.80 or 10.80 or 10 02 02 04 07/14 16 11 11 11 10 15 09 11 10 09 09 09 07 04 06 08/04-00-03-04-03 03 04 06 06 11, 15 16 12 14 13 12 14 12 16 10 10 10 09 114 08 09 01-02-03-03 03 04 07 04 07 08 13 12 12 11 11 12 12 11 11 69 05 10 60 10 60 10-03-01-03-01 9.1 cm SPECTHOHELIOGRAM 5 = 0.0 .v.cal = 5.55 Stanford, 1962 August 02, 20-21 hrs UT; Brightness Unit = 2.9 x 10 °K. 03 03 07 07 15 109 08 08 09 08 07 09 09 08 08 08 07 07 06 04 02-00-02-02 04 00-02-01 02 01 02 06/10 10 08 08 07 07 08 07 07 08 06 07 07 06 07 07

> 3 - to-10 80 for 60 60 60 80 80 80 80 20 50 60 01/80 01 01 11 11 21 21 80/80 to 20 10 16 14 12 12 11 09 09 08 08 08 08 09 09 07 07 04 02 00-02-01 02 02 04 16 15 14 11 11 10 10 09 09 07 08 09 08 07 09 06 07 14 11 11 11 14 15 04 02 00 05 07 05 07 1/2 15 11 10 11 10 09 09 09 11 07 08 07 05 05 08 07 01-02-03-03 04 03 04 05 07/11 13 12 11 10 09 09 10 10 09 08 06 08 09 07 07 05 06-04-03-02-02 04 04 04 04 04 0 1 27 12 11 11 10 09 10 09 10 09 09 06 00-02-01-03-03-03 03 02 03-00 01 02 03 05 10 11 11 01 09 09 09 09 08 09 09 00 00-01-04-03-02-02-02 02 02 01 00 01 01 03 01 05 04 08 08 07 36 04 05 04 03 01 01-32-33-32-03-33 Stanford, 1962 August 05, 20-21 hrs UT; Brightness Unit • : x l0 "K, 36 03-01-03 02 04 09/10 13 12 12 12 10 10 10 00 00 00 00 00 00 11 21 21 01 10 02-02 00 01-00 01 00-00-00-00-00 01 03 12 03 02 01-00 00-01 00 01-00-00-01 02 01 00 00 01 01-00 00 02-04 05 05 06 05 05 05 03 03 00-00-00-00-00-01-01 20-10-10 90 ا 160 وتا 200 00 كرفي نين بين بين بين بين بين بين بين بين عد عد 14/00 وتو در 160 وتا 20 وتا 20 وتا 20 وتا 70 وتا كرا 20 وتي بين دين عد عد 15/00 وتا الله بين عد المراجعة عدد 15/00 وتا الله بين عدد عدد 15 N 02 03 04

1962 AUGUST 01

9.1 cm SPECTMONELTIOGRAM 3 to 1904 a 3 to 3013 Stenford, 1962 August 04, 20-21 hrs UT; Brightness Unit 5.3 x 10° °K.

00-40-50 كام 60 كام 11 عاد 11-11-14-42-40 الأص-20-05-20-05 كام 60 كام 6

AUGUST 1962

STANFORD

9.1 cm

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

AUGUST 1962

Stanford, 1962 August 09, 20-21 hrs UT; Brightness Unit = 2 x 10° %.

 $04\cdot05\cdot05\cdot05\cdot06\cdot06 \times 07.05\cdot06 \times 07.05\cdot06 \times 07.05\cdot06 \times 04.03\cdot05\cdot06 \times 04.03\cdot05\cdot06 \times 04.03\cdot05\cdot06 \times 04.03\cdot05 \times 04.03\cdot05 \times 04.03\cdot06 \times 04.03 \times$ 03 03 04 06 05 05 08 10 11 11 11 01-01-01 10 03 06 01-02-01-01-00-02-02

09/ 04+02-04-03-04 00 01 10 02 01 11 01 00-01-01-02-02-02-01-01 ا جد من 7 ب 7 ت 7 ت بير على عد عد اعد إغد الجد عد دلا جد في أي. ر جد 7 ب كد كرد كرد كرد كرد برد 15 ترد إلاه المد 12 خد إياً . 65 هن 56 ود 17 دو 60 ود ود يو 12 ليليدر دا 15 عد 4 لم الأدر ود 40 ود 23 02 02 08 02 03 04 03 13 04 05 06 <mark>15</mark> 00 JS U4 23 02 U3 U2 U2 35 U5 20 30 40 EC EC A 03 04 .5

10-10-50-50-50 كن بود 50 60 60 10 70 70 50 60 60 60 60 ويل مني مد بود بود بود بود

J-1 cm SPECTWOHELIAGHAN Lyu2 August 11, 2-21 hrs UT; Brightness Unit = 3.1 x 102 "K.

STANFORD

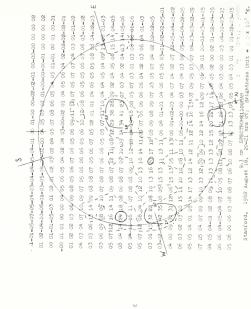
1962 AUGUST 17

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

AUGUST 1962

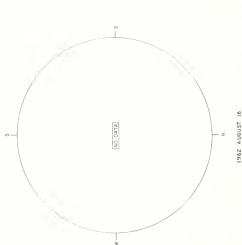
STANFORD

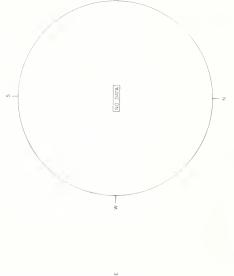
9.1 cm



1962 AUGUST 15

Brightness Unit - . Cx 103 °K.





AUGUST 1962

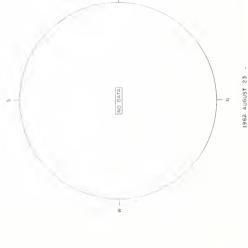
0-13 18 (2) 23 15 for 04 04 03 02 04 04 03-30-304-04 01-00-04-05-02-01-04-05-03-04-07-03 03 05-04-02 02 01 00+02 01 01 00-01 00 05-02-03-01-00 02 02 03 03 04 07 09 07 06 03 04 02-01-01-01-01-00 UN ON ON OR OF OF US OF US ON OR OF UF UF UF US OF OR OS OF ON-UZ-ON-ON

9.1 cm SPECTROHELJOORAM stanford, 1962 August 19, 20—21 hrs UT; Brightness Unit \bullet . x 10 3 %K.

-03 07 05 uz 08

JOHN 1-31-02-03-05-07-07-05-02 01 01 00 11 00-01-02-03-02-02-02

1962 AUGUST 24



1962 August 22, 20-21 hrs UT; Brightness Unit 2 : x 10 °K. 03 03 01 02 03 05 02-30 01 08 111 10-40-Stanford,

STANFORD

60-50-20-20-60-20-00-00 to \$0 \$0\$ 02 02 02 05 p8 09 09 09 07 07 07 05 05 06 07 06 06 07 06 07 12 07 12 07 00-02-02 E 05 01 03 05 07 00 11 11 11 10 08 07 12 09 07 08 07 05 07 08 07/06 05 01-02-02-02 04 04 02 03 05 05 09 04 03 01-02-02-02 03 01 06 08 13 14 11 10 19 09 09 09 09 08 06 06 07 07 08 07 01-03-03-03 05-05 03 01-01-02-01-01-03 $\frac{10^{-1} \text{Co}^{-1} \text{Co}^{-1}$ 01 03 04 11 01 06 08 08 08 08 08 08 08 08 00 00 09 09 01 11 py 03-03-02 50-08 06 06 06 05 05 07 11 10-04-01-03 00 01 04 08 15 21, 70 10 00 07 05 06 07 06 07 06 07 09 07 07 07 08 08 07 07 08 W 03-51 07 11 18 14 11 11 16 08 09 09 08 07 08 06 06 08 06 05 08 \$1 01-02-02-04 05 05 05 05 06 05 06 04 02-01-03-02-02-01 00 00 02 01 02 03 05 89 09 07 06 06 06 06 06 08 07 07 07 04 00-03-02-01-02 01 02 01 02 05/08 08 08 08 06 06 06 06 06 07 07 07 08 07/05 01-00-01-00 01 01 00 02 01 01 03 01 02 01 02 01 01 02 01 01 00 ga to 01 02 00 00 03 02 03 06 08 41 11,09 09 08 07 01 06/11 16 11 08 08 08 09 10, 09 09 09 02 00 01 01 01 03 04 03 04 05 06 06 08 08 01 01 00-02-01 02 02 94-05

Stanford, 1962 August 27th , 20-21 hrs UT; Brightness Unit = 3 4×10^{3} eK.

5

01.03.44 11.03 06.00 07.00 09.07 05.00 05.00 05.00 05.00 05.00 07.07 06.07 05.00 07.00 05. 09 07 05 01 00-01-01-00-00-00 08-67-07 08 04 01 01 01 01-02-02-01 Stanford, 1962 August 29, 20-21 Hrs UT; Brightness Unit =: : x 10° %. 01 01 04 06/11 11 08 08 08 08 08 05 06 08 08 05 06 07 08 06 07 09 09 09 09 00 01 00 00-01-01 02 05 05 07 06 07 06 05 07 06 06 07 07 07 05 04 02-02-03-03-02 -01-00 02 08 09 08 05 06 06 06 06 04 04 07 05 06 06 12 12 07 06 05-05-04 -01-01-02-02-02-01 01 01 02 02 03 02 04 04 04 04 04 08-03-03-03-04-04-03-03 03 03 04 04 06 08 09 09 09 00 08 07 0 09 10 12 13 10 10 06 02 01 01 00 01 04-00 00 31 01 00 01 03 02 01 02 03 02 03 02 03 09 o 60 60, 04 03 01 03 03 03 01 02 01/02 03 03 03 04

9,1 cm

0-01-00-01-01-01-03-02-01-01-02-01 05 05 00 00 00-03-03-03-01-03-05-0 anged to District HT 9-1 cm SPECTROHELIOGAN N S = 7: Total * 22 anged to 2-22 hrs HT 9-1 cm SPECTROHELIOGAN N Stanford, 1962 August 25, 20-21 hrs UT: Brightness Unit = 4.4 x 10° K. 05 00 00 01 01-00-00 01 00 00 02 01 02 00 00 01 17me of observation

1962 August 28, 20-21 hrs UT; Brightness Unit = 'x lo' 'K.

05 07 06 04 05 02 02 03 02 02 02 # Sparing to the state of the SPECTROHELIQORAN Construction of the state of the definition of the state of t 07 07 06 07 06 05 05 08 08 06 เปิดเอง ประเมิด 08 06 Receiver notay and base-Line drifted during Main rm commonmentance 06 09 07 05 07 06 07 08 02 15 17 17 18 15 15 15 00 00-01-03-02-02-03-03-02-01 00 09 03 03 03 03 03

We ge of the land is the is the injury in it is in in it is in in it is in in it is in in it is in in it is in in it is in it is

SOLAR RADIO EMISSION SPECTROHELIOGRAMS

AUGUST 1962

STANFORD

COSMIC RAY INDICES

Climax Neutron Monitor IGC STATION B 305

JULY 1962

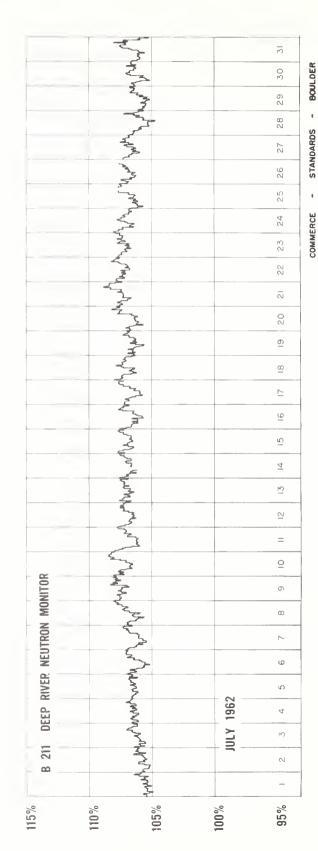
July 1962	Daily average counts/hr*	July 1962	Daily average counts hr*
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	3057.2 3064.1 + 34 3079.6 3092.9 + 34 3090.1 3091.3 3086.1 3090.7 3096.9 3111.8 3096.0 3086.0 3097.6 3097.6 3090.5	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	3094.5 3087.9 3094.6 3070.5 3090.2 3094.8 3091.6 3107.3 + 35 3093.9 3087.9 3086.3 + 38 3092.6 + 16 3067.2 3070.3 3078.0 3068.0

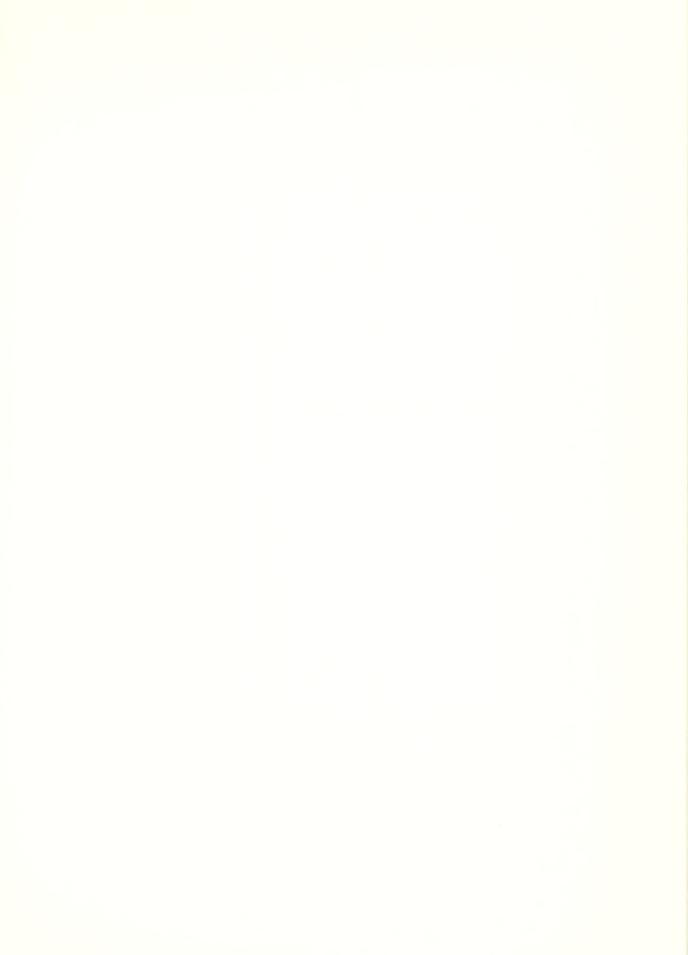
COMMERCE - STANDARDS - BOULDER

^{*} Scaling Factor 128

⁺ Number of Section Hours

COSMIC RAY INDICES (Pressure Corrected Hourly Totals)

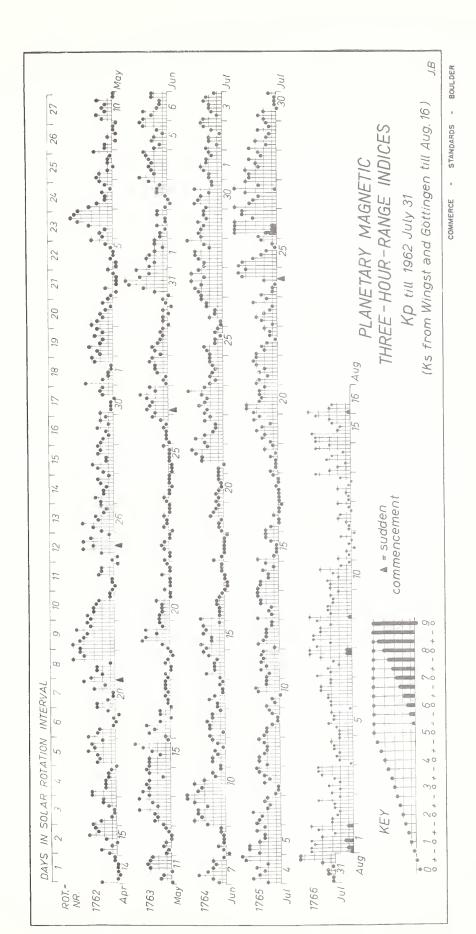




JULY 1962

July 1962	С	Values Kp Three hour Gr. interval 1 2 3 4 5 6 7 8	Sum	Ар	Final Selected Days
1 2 3 4 5	0.6 0.5 0.5 1.2 1.0	20 20 3- 30	180 15+ 16- 25+ 24+	9 8 8 19 16	Five Quiet 9 16
6 7 8 9 10	0.8 0.5 0.7 0.3 0.5	3+ 30 3- 4- 20 2- 2+ 20 10 1- 1- 2+ 2- 2+ 30 3+ 20 30 30 2+ 20 20 2+ 30 2+ 20 20 1+ 1- 1- 1+ 2- 20 10 1+ 0+ 30 3+ 20 20	21- 150 20- 120 150	12 8 10 6 8	17 18 30
11 12 13 14 15	0.6 0.5 0.6 0.7 0.3	20 2- 3- 20	18+ 150 19 - 170 11+	9 7 11 9 6	Five Disturbed 4 5 26
16 17 18 19 20	0.1 0.1 0.2 0.8 1.0	20 1+ 0+ 0+ 10 0+ 0+ 00 0+ 0+ 0+ 0+ 1- 0+ 10 1+ 1- 1- 1- 1+ 1- 20 10 1+ 2+ 20 30 2+ 1+ 3+ 3- 3+ 40 40 3- 2+ 3- 3- 20	6- 4- 8+ 18+ 24-	3 2 4 10 16	27 28
21 22 23 24 25	0.8 0.4 0.6 1.0	30 3- 2- 3- 20 30 3+ 30 30 20 2+ 2- 1- 1+ 1+ 20 10 2+ 30 20 1+ 10 3+ 2- 2+ 10 10 1- 20 4+ 5- 40 5- 4+ 3+ 2+ 2- 1- 10 2+	21+ 14+ 16- 200 20+	12 7 8 16 15	Ten Quiet 2 3
26 27 28 29 30 31	1.6 1.4 1.1 0.7 0.2 0.9	3- 6+ 6- 6- 50 3+ 4+ 4+ 50 4- 3+ 3- 40 5+ 3- 40 4- 4- 40 3- 30 4- 2+ 3- 4- 2- 30 2- 1+ 3- 1+ 2- 20 3- 20 0+ 1- 1- 1- 1+ 1- 1- 1+ 1+ 1- 20 4+ 4+	37+ 31- 26- 170 10+ 15+	46 28 18 10 5	12 15 16 17 18 22 30
Mean:	0.68		Mean:	12	

COMMERCE - STANDARDS - BOULDER

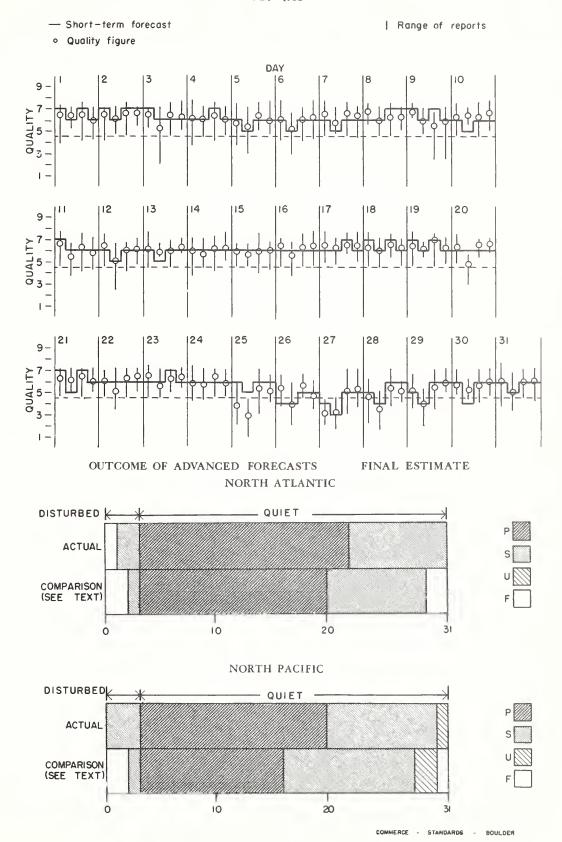


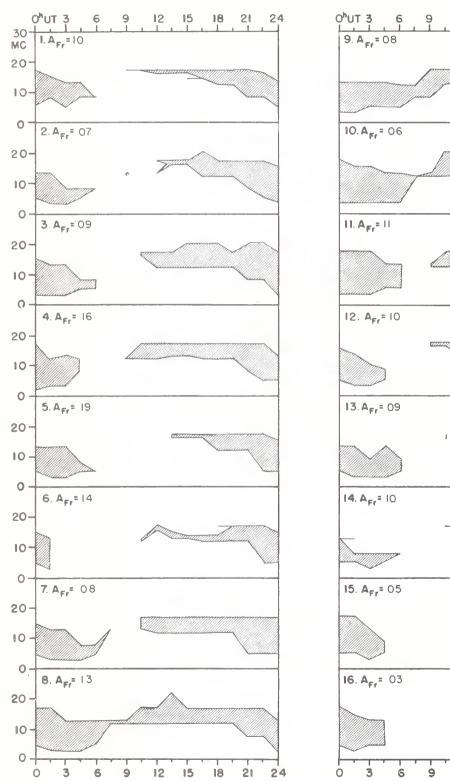
NORTH PACIFIC

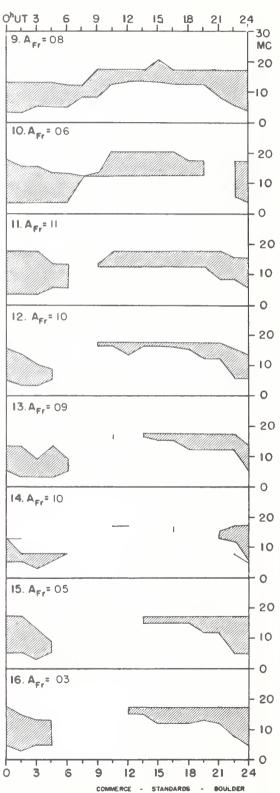
RADIO PROPAGATION QUALITY FIGURES AND FORECASTS CRPL

JULY 1962

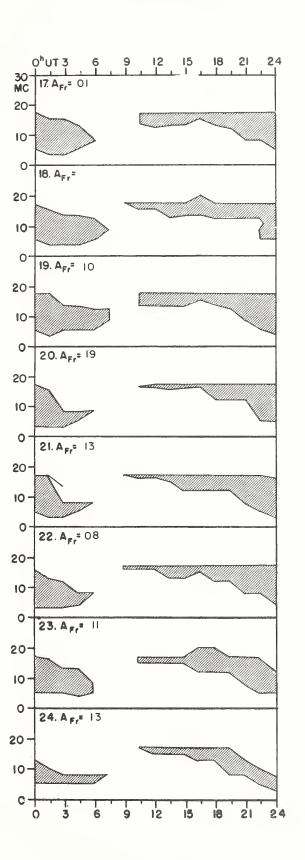
JULY 1962

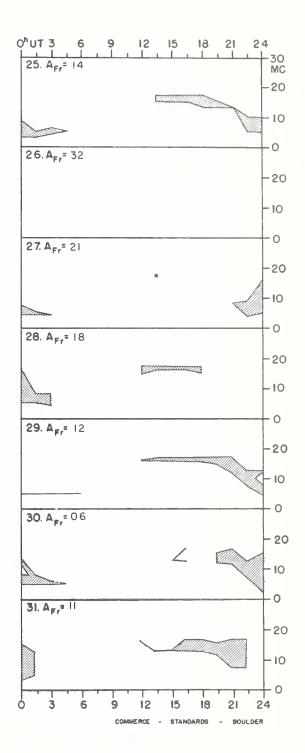






JULY 1962





INTERNATIONAL WORLD DAY SERVICE

AUGUST 1962

Issued August 1962 Day/Time U. T.	Advance Geophysical Alert	No.	World-Wide Geophysical Alert	Special World Intervals
01/1205	Ft. Belvoir, Magnetic Storm 31/20XXZ			
01/1600		171	Magnetic Storm, 31/20XXZ	Start
02/1600		172		Finish
08 ′1600		173	Magnetic Storm, 07/14XXZ	
15/1600		174	Magnetic Storm, 14/14XXZ	
22/1600		175	Magnetic Storm. 21/17XXZ	Start
23/1600		176		Finish
31 /1215	Ft. Belvoir. Magnetic Storm 31/00XXZ			
31/1600		177	Magnetic Storm, 31/00XXZ	

